

# **Rocky Flats Environmental Technology Site**

# TYPE 1 RECONNAISSANCE LEVEL CHARACTERIZATION REPORT (RLCR)

# TRAILER 130B CLOSURE PROJECT

March 1, 2005

**REVISION 0** 



ADMIN RECORD

CLASSIFICATION REVIEW NOT REQUIRED PER EXEMPTION NUMBER CEX-005-02

IA-A-002595

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**REVISION 0** 

Reviewed by:

Don Risoli Ovality Assurance

Jate: 3//

Reviewed by:

D.P. Snyder, RISS ESH&Q Manager

Dates

Approved by:

Cameron Freiboth, K-H D&D Project Manager

Date: 03/01/05

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## ABBREVIATIONS/ACRONYMS

ACM Asbestos containing material

Be Beryllium

CDPHE Colorado Department of Public Health and the Environment

CERCLA Comprehensive Emergency Response, Compensation and Liability Act

DCGL<sub>EMC</sub> Derived Concentration Guideline Level – elevated measurement comparison

DCGL<sub>w</sub> Derived Concentration Guideline Level – Wilcoxon Rank Sum Test

D&D Decontamination and Decommissioning

DDCP Decontamination and Decommissioning Characterization Protocol

DOE U.S. Department of Energy
DPP Decommissioning Program Plan
DOA Data quality assessment

DQA Data quality assessment
DQOs Data quality objectives

EPA U.S. Environmental Protection Agency
FDPM Facility Disposition Program Manual
HVAC Heating, ventilation, air conditioning
HSAR Historical Site Assessment Report
IHSS Individual Hazardous Substance Site
IWCP Integrated Work Control Package

K-H Kaiser-Hill
LBP Lead-based paint
LLW Low-level waste

MARSSIM Multi-Agency Radiation Survey and Site Investigation Manual

MDA Minimum detectable activity
MDC Minimum detectable concentration
NORM Naturally occurring radioactive material

NRA Non-Rad-Added Verification

OSHA Occupational Safety and Health Administration

PARCC Precision, accuracy, representativeness, comparability and completeness

PCBs Polychlorinated Biphenyls
PDS Pre-demolition survey
OC Quality Control

RCRA Resource Conservation and Recovery Act

RFCA Rocky Flats Cleanup Agreement

RFETS Rocky Flats Environmental Technology Site

RFFO Rocky Flats Field Office

RLC Reconnaissance Level Characterization

RLCR Reconnaissance Level Characterization Report

RSP Radiological Safety Practices
SVOCs Semi-volatile organic compounds
TCLP Toxicity Characteristic Leaching Procedure

TSA Total surface activity

VOCs Volatile organic compounds

# **EXECUTIVE SUMMARY**

A Reconnaissance Level Characterization (RLC) was performed to enable facility "Typing" per the DPP (10/8/98) and compliant disposition and waste management of Trailer 130B. Because this facility was an anticipated Type 1 facility, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). All facility surfaces were characterized in this RLC, including the interior floors, walls, and ceilings. Environmental media beneath and surrounding the facility was not within the scope of this RLCR and will be addressed at a future date using the Soil Disturbance Permit process and in compliance with RFCA.

The RLC encompassed both radiological and chemical characterization to enable compliant disposition and waste management pursuant to the D&D Characterization Protocol (MAN-077-DDCP). The characterization built upon physical, chemical and radiological hazards identified in the facility-specific Historical Site Assessment Reports.

Results indicate that no radiological contamination exists in excess of the PDSP unrestricted release limits of DOE Order 5400.5. Representative laboratory results of building materials suspected of containing asbestos were "None Detected." All beryllium sample results were less than  $0.1 \, \mu g/100 cm^2$ . Based upon this RLCR, Trailer 130B is considered a Type 1 facility and can be demolished. To ensure the facility remains free of contamination and the RLC data remain valid, Level 2 Isolation Controls have been established and the facility posted accordingly.

# 1 INTRODUCTION

A Reconnaissance Level Characterization (RLC) was performed to enable compliant disposition and waste management of Trailer 130B. Because this facility was an anticipated Type 1 facility, a PDS characterization was performed. All facility surfaces were characterized in this RLC, including the interior surfaces of the facility (i.e., floors, walls, and ceilings). Environmental media beneath and surrounding the facility was not within the scope of this RLC Report (RLCR) and will be addressed at a future date using the Soil Disturbance Permit process and in compliance with RFCA.

As part of the Rocky Flats Environmental Technology Site (RFETS) Closure Project, numerous facilities will be removed, among these is Trailer 130B. The location of this facility is shown in Attachment A, *Facility Location Map*. This facility no longer supports the RFETS mission and needs to be removed to reduce Site infrastructure, risks and/or operating costs.

Before the facility can be removed, a Pre-Demolition Survey (PDS) must be conducted; this document presents the PDS results. The PDS was conducted pursuant to the Decontamination and Decommissioning Characterization Protocol (MAN-077-DDCP) and the Pre-Demolition Survey Plan for D&D Facilities (MAN-127-PDSP). The PDS built upon physical, chemical and radiological hazards identified in the facility-specific Historical Site Assessment Report for the Area 5-Group 6 Facilities, dated September 2002, Revision 0.

# 1.1 Purpose

The purpose of this report is to communicate and document the results of the RLC effort. A RLC is performed before building demolition to define the pre-demolition radiological and chemical conditions of a facility. The pre-demolition conditions are compared with the release limits for radiological and non-radiological contaminants. RLC results will enable project personnel to make final disposition decisions, develop related worker health and safety controls, and estimate waste volumes by waste types.

# 1.2 Scope

This report presents the pre-demolition radiological and chemical conditions of Trailer 130B. Environmental media beneath and surrounding the facility is not within the scope of this RLCR and will be addressed using the Soil Disturbance Permit process and in compliance with RFCA.

# 1.3 Data Quality Objectives

The Data Quality Objectives (DQOs) used in designing this RLC were the same DQOs identified in the Pre-Demolition survey Plan for D&D Facilities (MAN-127-PDSP.) Refer to section 2.0 of MAN-127-PDSP for these DQOs.

# 2 HISTORICAL SITE ASSESSMENT

A facility-specific Historical Site Assessment (HSA) was conducted to understand the facility history and related hazards. The assessment consisted of facility walkdowns, interviews, and document review, including review of the Historical Release Report (refer to the D&D Characterization Protocol, MAN-077-DDCP). Results were used to identify data gaps and needs, and to develop radiological and chemical characterization packages. Results of the facility-specific HSA was documented in a facility-specific Historical Site Assessment Report for the Area 5 - Group 6 Facilities, Dated September 2002, Revision 0. Refer to Attachment B, Historical Site Assessment Report, for a copy of the Trailer 130B HSAR. In summary, the HSAR identified a low potential for radiological, chemical, beryllium or asbestos hazards.

# 3 RADIOLOGICAL CHARACTERIZATION AND HAZARDS

Trailer 130B was characterized for radiological hazards per the PDSP. Radiological characterization was performed to define the nature and extent of radioactive materials that may be present on the facility surfaces. Measurements were performed to evaluate the contaminants of concern. Based upon a review of historical and process knowledge, building walk-downs, and MARSSIM guidance, Radiological Characterization Plans were developed during the planning phases that describe the minimum survey requirements (refer to the RISS Characterization Project files).

One radiological survey package (130B02) was developed for the interior of Trailer 130B. The survey package was developed in accordance with Radiological Safety Practices (RSP) 16.01, Radiological Survey/Sampling Package Design, Preparation, Control, Implementation and Closure. Survey Unit 130B02 is a MARSSIM Class 3 area due to the low potential for radiological contamination in Trailer 130B. Total surface activity (TSA), removable surface activity (RSA), and scan measurements were collected in accordance with RSP 16.02 Radiological Surveys of Surfaces and Structures. Radiological survey data were verified, validated and evaluated in accordance with RSP 16.04, Radiological Survey/Sample Data Analysis. Quality control measures were implemented relative to the survey process in accordance with RSP 16.05, Radiological Survey/Sample Quality Control. Radiological survey data, statistical analysis results, and survey locations are presented in Attachment C, Radiological Data Summary and Survey Maps. The radiological survey unit package is maintained in the RISS Characterization Project files.

Sixty-four (64) TSA measurements (22 random, 40 biased, and 2 QC) and sixty-two (62) RSA measurements (22 random and 40 biased) were performed; and a minimum of 5% scan of all interior surfaces of the facility was performed. The RLC data confirmed that this facility does not contain radiological contamination above the surface contamination guidelines provided in the PDSP. Radiological survey data, statistical analysis results, and survey locations are presented in Attachment C, Radiological Data Summary and Survey Maps. The radiological survey unit package is maintained in the RISS Characterization Project files. Level 2 Isolation Control postings are displayed on the building to ensure no radioactive materials are inadvertently introduced.

The exterior radiological surveys for Trailer 130B were performed as part of the RISS West Side Exterior PDS strategy effort (authorized by Department of Energy letter, 02-DOE-01598, dated December 13<sup>th</sup>, 2002 and approved by CDPHE letter, RE: Proposed Deviations From The Pre-Demolition Survey Plan (PDSP), dated January 27, 2003; refer to the RISS Characterization Project Files for letter copies). The RISS West Side exterior building radiological surveys and locations can be found in survey unit package EXT-B-001, RISS West Side Building Exteriors. Three (3) biased TSA measurements, three (3) biased RSA measurements, and a one (1) square meter scan at each TSA/RSA location was performed on the exterior surfaces of Trailer 130B. The RLC data collected in exterior survey unit package EXT-B-001 confirmed that the exterior surfaces of Trailer 130B do not contain radiological contamination above the surface contamination guidelines provided in the PDSP. Radiological survey data, statistical analysis results, and survey map locations for the West-Side Exterior survey unit package EXT-B-001 are maintained in the RISS Characterization Project files.

# 4 CHEMICAL CHARACTERIZATION AND HAZARDS

Trailer 130B was characterized for chemical hazards per the PDSP. Chemical characterization was performed to determine the nature and extent of chemical contamination that may be present on or in the facility. Based upon a review of historical and process knowledge, visual inspections, and PDSP DQOs, additional sampling needs were determined. A Chemical Characterization Plan (refer to RISS Characterization Project files) was developed during the planning phase that describes sampling requirements, the justification for the sample locations and estimated sample numbers. Contaminants of concern included asbestos, beryllium, RCRA/CERCLA constituents, and PCBs.

# 4.1 Asbestos

The 130 Trailer Complex (Trailers 130A through 130J) are identical 15,400 square-foot trailers acquired in 1991 from the same manufacturer (refer to Attachment B, Historical Site Assessment Report). Building materials sampled for asbestos in one trailer, therefore, would be representative of the asbestos content for the same materials in the other trailers. Thus, bulk samples taken in one trailer would be representative of bulk samples taken in another trailer. A survey of building materials suspected of containing asbestos was conducted in Trailers 130D and 130E as part of the Area 5-Group 6a RLCR, dated April 15, 2003. A CDPHE-certified asbestos inspector conducted the inspection and sampling in accordance with the Asbestos Characterization Protocol, PRO-563-ACPR, Revision 1. Building materials suspected of containing asbestos were identified for sampling at the discretion of the inspector. Four (4) samples each were taken in Trailers 130D and 130E and all laboratory results of building materials suspected of containing asbestos were "None Detected". Because Trailers 130D and 130E are representative of the same materials in Trailers 130B, it is assumed there is no asbestos containing materials in Trailer 130B. On this basis, no asbestos sampling was performed in Trailer 130B as part of the RLC.

# 4.2 Beryllium (Be)

Based on the HSAR and personnel interviews, Trailer 130B was an anticipated Type 1 facility. There was not, however, adequate historical and process knowledge to conclude that beryllium was not used or stored in this building. Therefore, biased beryllium sampling was performed in accordance with the PDSP and the *Beryllium Characterization Procedure*, *PRO-536-BCPR*, *Revision 0*, *September 9*, *1999*. Biased sample locations corresponded with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

All beryllium smear sample results were less than  $0.1 \,\mu\text{g}/100\text{cm}^2$ . Beryllium laboratory sample data and location maps are contained in Attachment D, *Chemical Data Summaries and Sample Maps*.

# 4.3 RCRA/CERCLA Constituents [including metals and volatile organic compounds (VOCs)]

Based on a review of the HSAR and a facility walk-down, Trailer 130B was used primarily as an office trailer, and never contained any operations that could lead to RCRA/CERCLA contamination, therefore, RCRA/CERCLA constituent sampling was not performed in this facility as part of the RLC.

Sampling for lead in paint in Trailer 130B was not performed. Environmental Waste Compliance Guidance #27, Lead-based Paint (LBP) and Lead-based paint Debris Disposal, states that LBP debris generated outside of currently identified high contamination areas shall be managed as non-hazardous (solid) waste, and additional analysis for characteristics of hazardous waste derived from LBP is not a requirement for disposal. There were no high contamination areas in Trailer 130B.

# 4.4 Polychlorinated Biphenyls (PCBs)

Based on the HSARs, interviews and facility walk-downs of Trailer 130B, no PCB-containing equipment was ever present in the building, making the potential for PCB contamination resulting from spills highly unlikely. Therefore, PCB sampling was not performed in Trailer 130B as part of the RLC. Based on the age of Trailer 130B (constructed after 1980), paints used do not contain PCBs. Additionally, there are no suspected PCB light ballasts in this facility. However, all light ballasts will be inspected and if leaking PCB ballasts are discovered, they will be removed and managed accordingly.

# 5 PHYSICAL HAZARDS

Physical hazards associated with Trailer 130B consist of those common in standard industrial environments and include hazards associated with energized systems, utilities, and trips and falls. The facility has been relatively well maintained and is in good physical condition, and therefore, does not present hazards associated with building deterioration. Physical hazards are controlled by the Site Occupational Safety and Industrial Hygiene Program, which is based on OSHA regulations, DOE orders, and standard industry practices.

# 6 DATA QUALITY ASSESSMENT

Data used in making management decisions for decommissioning of Trailer 130B, and consequent waste management, are of adequate quality to support the decisions documented in this report. The data presented in this report (Attachments C and D) were verified and validated relative to DOE quality requirements, applicable EPA guidance, and original DQOs of the project.

In summary, the Verification and Validation (V&V) process corroborates that the following elements of the characterization process are adequate:

- ♦ the *number* of samples and surveys;
- the *types* of samples and surveys;
- the sampling/survey process as implemented "in the field"; and,
- the laboratory analytical process, relative to accuracy and precision considerations.

Details of the DQA are provided in Attachment E, Data Quality Assessment Detail.

# 7 DECOMMISSIONING WASTE TYPES AND VOLUME ESTIMATES

The demolition and disposal of Trailer 130B will generate sanitary waste. Estimated waste volumes are presented below. All waste can be disposed of as sanitary waste, there is no radioactive or hazardous waste.

	Was	te Volum	e Estima	tes and Mater	ial Types – Tr	ailer 130	В
	Concrete	Wood	Metal	Corrugated Sheet Metal	Wall Board	ACM	
Facility	(cu ft)	(cu ft)	(cu ft)	(cu ft)	(cu ft)	(cu ft)	Other Waste
T130B	0	3,500	1,500	3,000	4,500	0	None

# 8 FACILITY CLASSIFICATION AND CONCLUSIONS

Based on the analysis of radiological, chemical and physical hazards, Trailer 130B is classified as a RFCA Type 1 facilities pursuant to the RFETS Decommissioning Program Plan (DPP; K-H, 1999) and can be demolished. The Type 1 classification is based on a review of historical and process knowledge, and newly acquired RLC/PDS data.

The RLC of Trailer 130B was performed in accordance with the DDCP and PDSP. All PDSP DQOs were met, and all data satisfied the PDSP DQA criteria. Trailer 130B did not contain radiological or hazardous waste. Environmental media beneath and surrounding the facility will be addressed at a future date using the Soil Disturbance Permit process and in compliance with RFCA.

To ensure this Type 1 facility remains free of contamination and the RLC data remain valid, Level 2 Isolation Controls have been established and the facility posted accordingly.

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# 9 REFERENCES

DOE/RFFO, CDPHE, EPA, 1996. Rocky Flats Cleanup Agreement (RFCA), July 19, 1996.

DOE Order 5400.5, "Radiation Protection of the Public and the Environment."

EPA, 1994. "The Data Quality Objective Process," EPA QA/G-4.

K-H, 1999. Decommissioning Program Plan, June 21, 1999.

MAN-131-QAPM, Kaiser-Hill Team Quality Assurance Program, Rev. 1, November 1, 2001.

MAN-076-FDPM, Facility Disposition Program Manual, Rev. 3, January 1, 2002.

MAN-077-DDCP, Decontamination and Decommissioning Characterization Protocol, Rev. 3, July 15, 2002.

MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities, Rev. 1, July 15, 2002.

MARSSIM - Multi-Agency Radiation Survey and Site Investigation Manual, December 1997 (NUREG-1575, EPA 402-R-97-016).

PRO-475-RSP-16.01, Radiological Survey/Sampling Package Design, Preparation, Control, Implementation, and Closure, Rev. 1, May 22, 2001.

PRO-476-RSP-16.02, Pre-Demolition (Final Status) Radiological Surveys of Surfaces and Structures, Rev. 1, May 22, 2001.

PRO-477-RSP-16.03, Radiological Samples of Building Media, Rev. 1, May 22, 2001.

PRO-478-RSP-16.04, Radiological Survey/Sample Data Analysis for Final Status Survey, Rev. 1, May 22, 2001.

PRO-479-RSP-16.05, Radiological Survey/Sample Quality Control for Final Status Survey, Rev. 1, May 22, 2001.

PRO-563-ACPR, Asbestos Characterization Procedure, Revision 0, August 24, 1999.

PRO-536-BCPR, Beryllium Characterization Procedure, Revision 0, August 24, 1999.

RFETS, Environmental Waste Compliance Guidance #25, Management of Polychlorinated Biphenyls (PCBs) in Paint and Other Bulk Product Waste During Facility Disposition.

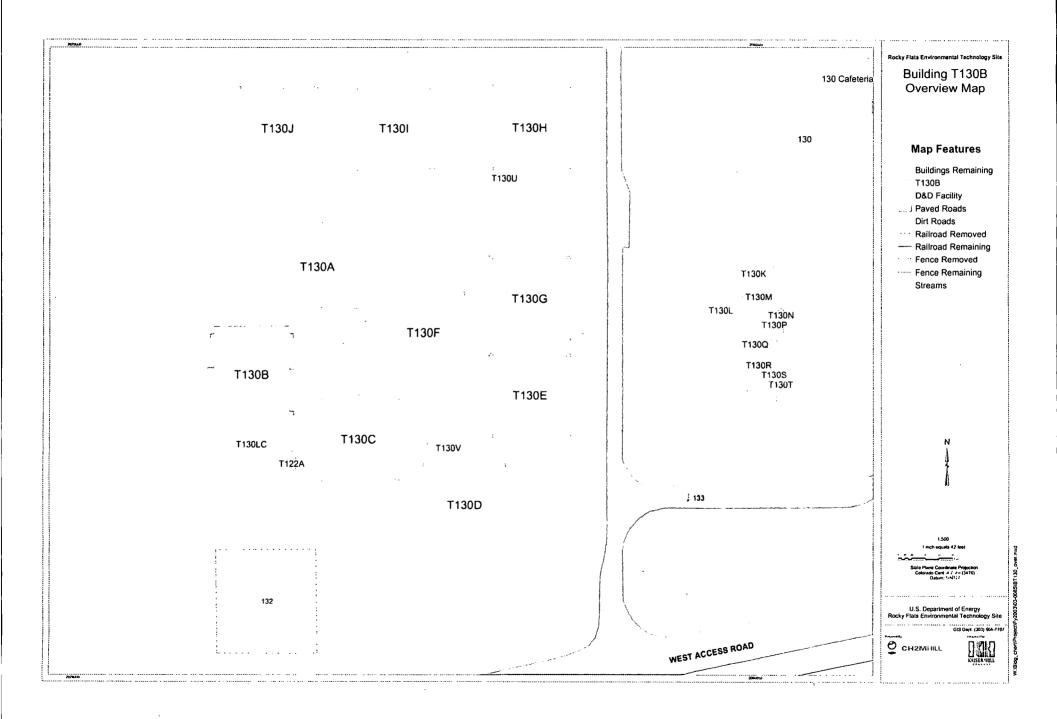
RFETS, Environmental Waste Compliance Guidance #27, Lead-Based Paint (LBP) and Lead-Based Paint Debris Disposal.

RFCA Standard Operation Protocol for Recycling Concrete, September 28, 1999.

Historical Site Assessment Report for the Area 5 - Group 6 Facilities, Dated September, 2002, Revision 0.

# ATTACHMENT A

Facility Location Map



# ATTACHMENT B

Historical Site Assessment Report

# Facility ID: (AREA 5 GROUP 6) Trailers T130 A, B, C, D, E, F, G, H, I, and J.

Anticipated Facility Type (1, 2, or 3): Trailers T130 A, B, C, D, E, F, G, H, I, and J are anticipated Type 1 facilities.

This facility-specific Historical Site Assessment (HSA) has been performed in accordance with: D&D Characterization Protocol, RFETS MAN-077-DDCP, latest version, and Facility Disposition Program Manual, RFETS MAN-076-FDPM, latest version

### **Physical Description**

### Trailers T130 A, B, C, D, E, F, G, H, I and J.

The T130 Trailers are identical trailers. These trailers are each 15,400 square-foot general office trailers and were acquired in 1991. These modular trailers are each approximately 120-feet wide by 130-feet long. Each trailer has corrugated metal siding with corrugated metal skirting. The entrances have wooden stairs leading to a wooded enclosure.

The interiors are primarily a cubical layout, but have several hard-walled offices, conference rooms, and rest rooms. Interior walls are wallboard, the ceiling is a drop ceiling with acoustical tiles and recessed lights. The floors are primarily covered with carpet except in the bathrooms and dock entranceways, which are covered with vinyl tile.

The T130 Trailers each have the following utilities: electrical, plant water, plant sanitary, and fire protection is provided by an overhead sprinkler system and wall mounted fire extinguishers.

### **Historical Operations**

The T130 trailers we originally installed to support the RFETS Resumption activities in the early 1990s. In the mid 1990s the trailer began housing other management and administrative support operations in support of the site closure goals. Over the last few years, as field trailers from inside the Industrial Zone have been removed, more field activities have been moved into the T130 trailers. On occasion, some trailers have set up RMS to store test sealed sources or to store environmental samples that may contain very low levels of chemical or radiological activity.

Trailers T130A, B, E, and I have recently set up RMAs for the storage of sealed test sources in support of field activities. The site photographic department has recently moved to T130 and established a Satellites Accumulation Area to handle it photo-developing waste. There has been no evidence of building contamination associated with these activities. The remaining Trailers addressed in the HSA (T130C, D, F, H, and J) have primarily been used for management or administrative uses.

Currently T130A houses field sampling operation, the Canberra analytical organization, and the BioAssay receiving and shipping operations. A RMA was established to support these activities in 2002. T130B houses Rad Safety and Rad Engineering and established a RMA in 2000. T130C houses general management and administrative activities such as Analytical Services, Waste Shipping support personnel, Ecology, and Regulatory Compliance. T130D houses general management and administrative activities such as Rocky Flats Site Closure Services senior management, Legal, and Project Controls. T130E houses the SteelWorkers Union, Emergency Preparedness and the Radiological Assistance Team (RAP Team). An RMA was established in the early 1990s to house sealed sources and emergency response radiological equipment. T130F houses general management and administrative activities such as TRU Waste Programs and Materials Stewardship. T130G houses general management and administrative activities, CERCLA Records, document control, and Analytical Serviced document management. In 2002, the Photography department was moved to T130G. A Satellites Accumulation Area was established to handle the Photo-developing waste. T130H houses general management and administrative activities such as KH Construction. T130I houses general management and administrative activities such as Telecommunications, Computer Support, and RISS Radiological Support personnel. An RMA was established in 2002 to support RISS Radiological Support operations. T130J houses general management and administrative activities such as Bartlett Janitorial Services, Roads and Grounds, RISS Industrial Hygiene, and RISS support personnel.

# **Current Operational Status**

The T130 A, B, C, D, E, F, G, H, I and J trailers are all currently operational

### Contaminants of Concern

### Asbestos

Describe any potential, likely, or known sources of Asbestos:

None of the trailers addressed in this HSA have an asbestos posting. The Industrial Hygiene Group (IH) has collected some asbestos data on the T130 office trailers. Contact IH for a copy of this information.

### Beryllium (Be)

Describe any potential, likely, or known Be production or storage locations:

None of the Trailers addressed in this HSA are on the List of known Be Areas.

Summarize any recent Be sampling results:

There have been no recent Be samples collected on any of these facilities.

### Lead

Describe any potential, likely, or known sources of Lead (e.g., paint, shielding, etc.):

Based on the age of some of the trailers addressed in this HSA, lead in paint should not be a concern. No processes containing lead were conducted in these trailers.

### RCRA/CERCLA Constituents

Describe any potential, likely, or known sources of RCRA/CERCLA constituents (e.g., chemical storage, waste storage, and processes):

In 2002, the Photography department was moved into T130G. A Satellites Accumulation Area was established to handle it Photo-developing waste. Canberra Mobile Services has a chemical cabinet to store acid and base ampules used to preserve some water samples.

See the Historical operations section above for a more detailed listing of the operations which occurred in the facilities addressed in this HSA.

Describe any potential, likely, or known spill locations (and sources, if any):

None of the facilities in this HSA have had any RCRA/CERCLA spills.

Describe methods in which spills were mitigated, if any:

None of the facilities in this HSA have had any RCRA/CERCLA spills.

### **PCBs**

Describe any potential, likely, or known sources of PCBs (e.g., light ballasts, paints, equipment, etc.):

No PCB containing process where housed in any of the Trailers addressed in this HSA. Based on the age of construction of some of these facilities, PCBs in paint should not be a concern.

Describe any potential, likely, or known spill locations (and sources, if any):

No PCB spills occurred in any of the Trailers addressed in this HSA.

Describe methods in which spills were mitigated, if any:

No PCB spills occurred in any of the Trailers addressed in this HSA.

### Radiological Contaminants

Describe any potential, likely, or known radiological production or storage locations:

None of the Trailers in this HSA are radiological posted. However, several of the Trailers addressed in this HSA have RMAs established in them. In addition, Trailer T130A houses the field sampling operations and also houses Canberra Gamma Spectroscopy operations. There is no evidence of building contamination associated with these activities. See the Historical operations section above for a more detailed listing of the operations which occurred in the facilities addressed in this HSA.

Describe any potential, likely, or known spill locations (e.g., known leaking sealed radioactive sources, leaking waste drums, potentially contaminated drains, etc.):

Except as noted in the historical operations section above radiological material has no routinely stored or handled in any of the facilities addressed in this HSA.

Describe methods in which spills were mitigated, fany:

None of the facilities in this HSA have had a radiological spill.

Describe any potential, likely, or known isotopes of concern (e.g., weapons grade plutonium, uranium isotopes, pure beta emitters, mixed fission products, etc.):

Isotopes of concern include uranium and plutonium.

Describe any potential, likely, or known external facility contamination (e.g., stack release points, unfiltered ventilation, facility's physical location to known site releases, etc.):

See section below for information on IHSSs PACs, and UBCs.

# **Environmental Restoration Concerns**

Describe any ER concerns that could affect facility characterization (e.g., IHSSs, PACs, UBCs):

None of the Trailers addressed in this HSA are associated with any IHSSs, PACs, or UBCs.

## **Additional Information**

Describe any additional information that may be useful during facility characterization (e.g., contaminant migration routes, waste handling operations, physical hazards, Historical Release Reports, WSRIC data, etc.):

None

## References

Provide all sources of information utilized to gather data for facility history (e.g., documents, files, interviews):

Sources reviewed to complete this HSA were the RFETS Facility List, the Historical Release Report, Site Master List of RCRA Units, and the Site IHSS, PAC, and UBC databases. The WSRIC for those buildings with a WSRIC. In addition, a facility walkdown and interviews were performed.

Waste Volume Estimates and Material Types

	T	<u> </u>		Corrugated			
	Concrete	Wood	Metal	Sheet Metal	Wall Board	ACM	Other Waste
Facility	(cu ft)	(cu ft)	(cu ft)	(cu ft)	(cu ft)	(cu ft)	(cu ft)
Trailer T130A	0	3500	1500	3000	4500	TBD	N/A
Trailer T130B	0	3500	1500	3000	4500	TBD	N/A
Trailer T130C	0	3500	1500	3000	4500	TBD	N/A
Trailer T130D	0	3500	1500	3000	4500	TBD	N/A
Trailer T130E	0	3500	1500	3000	4500	TBD	N/A
Trailer T130F	0	3500	1500	3000	4500	TBD	N/A
Trailer T130G	0	3500	1500	3000	4500	TBD	N/A
Trailer T130H	0	3500	1500	3000	4500	TBD	N/A
Trailer T130I	0	3500	1500	3000	4500	TBD	N/A
Trailer T130J	0	3500	1500	3000	4500	TBD	N/A

### **Further Actions**

Recommend any further actions, if any (e.g., characterization, decontamination, special handling, etc.):

Begin the RLC/PDS process.

### Note:

This HSA was performed prior to SME walkdowns, and chemical and radiological characterization package preparations. SMEs should evaluate and/or verify all information during the RLC/PDS process. SMEs may need to review additional documentation and perform additional interviews. Information contained in this HSA only represents a "snapshot" in time. Subsequent data may be obtained during SME walkdowns and chemical and radiological characterization package preparations, which may conflict with this report. However, this report will not be amended, and the newer data will take precedence over the data in this report. Newer Data will appear in the RLCR/PDSR.

Prepared By:	Doug Bryant	low Ball	September 2002	
	Name	Signature	Date	

# ATTACHMENT C

# Radiological Data Summaries and Survey Maps

Survey Area: 5

Survey Unit: 130B02

Building: T130B

Description: T130B Interior, all surfaces

# **Rocky Flats Environmental Technology Site** Final Radiological Survey Summary Results

# **Total Surface Activity Measurements**

Nbr Random Measurements Required: 22

Nbr Biased Measurements Required: 40

Nbr QC Required: 2

Nbr Random Measurements Performed: 22

Nbr Biased Measurements Performed: 40

Nbr QC Performed: 2

# Alpha

Maximum:

32.8 dpm/100cm<sup>2</sup>

Minimum:

-8.4 dpm/100cm<sup>2</sup>

Mean:

7.2 dpm/100cm<sup>2</sup>

Standard Deviation:

QC Maximum:

20.5 dpm/100cm<sup>2</sup>

QC Minimum:

19.1 dpm/100cm<sup>2</sup>

QC Mean:

19.8 dpm/100cm<sup>2</sup>

Transuranic DCGLw:

100.0 dpm/100cm<sup>2</sup>

Transuranic DCGLEMC:

300.0 dpm/100cm<sup>2</sup>

# Removable Surface Activity Measurements

Nbr Random Measurements Required: 22

Nbr Biased Measurements Required: 40

Nbr Random Measurements Performed: 22

Nbr Biased Measurements Performed: 40

# Alpha

Maximum:

3.6 dpm/100cm<sup>2</sup>

Minimum:

-0.9 dpm/100cm<sup>2</sup>

Mean:

0.2 dpm/100cm<sup>2</sup>

Standard Deviation:

1.4

Transuranic DCGLw:

20.0 dpm/100cm<sup>2</sup>

# **Media Sample Results**

Nbr Random Required: 0

Nbr Biased Required: 0

Nbr Random Collected: 0

Nbr Biased Collected: 0

Conclusion - A comparison of the random, biased and QC measurement results against the PDSP Table 7-1 Surface Contamination Guideline limits was conducted; the comparison demonstrates that this survey unit passes the criterion specified in the PDSP.

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Survey Area: 5 Survey Unit: 130802 Building: T1308

Description: T130B Interior, all surfaces

# **Instrument Data Sheet**

Inst/R	CT RCT	Analysis	Instr	Instru	Probe	Calibration	Instru Ef	ficiency	A-Prio (dpm/1	ri MDA 00cm²)	Survey
Numb	er ID	Date	Model	S/N	Туре	Due Dt	Alpha	Beta	Alpha	Beta	Type
1	712467	02/17/05	Electra	681	DP-8	07/13/05	0.162	NA	48.0	NA	S
2	712467	02/17/05	Electra	1235	DP-6	03/16/05	0.222	NA	48.0	NA	s
3	711447	02/17/05	Electra	673	AP-6	07/24/05	0.173	NA	48.0	NA	S.
4	712193	02/17/05	Electra	1366	DP-6	04/05/05	0.212	NA	48.0	NA	S
5	711447	02/21/05	Electra	1235	DP-6	03/16/05	0.222	NA	48.0	NA	T/S
6	712467	02/21/05	Electra	2340	DP-6	05/15/05	0.222	NA	48.0	NA	T/S
7	712193	02/21/05	Electra	1366	DP-6	04/05/05	0.212	NA	48.0	NA	Q/S
8	712193	02/21/05	SAC-4	767	NA	08/03/05	0.330	NA	10.0	NA	R

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

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Survey Are			y Ünit: 130B02		Building:	130B	
Description: T	130B Interior, all	surfaces					
			Comments	Sheet			
General Comments:	N/A						
TSA Comments:	N/A					·	
RSA Comments:	N/A						
Media Comments:	N/A					•	
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							,
							ŧ.

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Survey Area: 5 Survey Unit: 130B02 Building: T130B

Description: T130B Interior, all surfaces

# **Random Removable Surface Activity Data Sheet**

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
130B02PRP-N001	8	-0.9	N/A	N/A
130B02PRP-N002	8	-0.9	N/A	N/A
130B02PRP-N003	8	2.1	N/A	N/A
130B02PRP-N004	8	-0.9	N/A	N/A
130B02PRP-N005	8	2.1	N/A	N/A
130B02PRP-N006	8	-0.9	N/A	N/A
130B02PRP-N007	8	-0.9	N/A	N/A
130B02PRP-N008	8	3.6	N/A	N/A
130B02PRP-N009	8	0.6	N/A	N/A
130B02PRP-N010	8	-0.9	N/A	N/A
130B02PRP-N011	8	0.6	N/A	N/A
130B02PRP-N012	8	-0.9	N/A	N/A
130B02PRP-N013	8	0.6	N/A	N/A
130B02PRP-N014	8	0.6	N/A	N/A
130B02PRP-N015	8	0.6	N/A	N/A
130B02PRP-N016	8	2.1	N/A	N/A
130B02PRP-N017	8	0.6	N/A	N/A
130B02PRP-N018	8	-0.9	N/A	N/A
130B02PRP-N019	8	-0.9	N/A	N/A
130B02PRP-N020	8	0.6	N/A	N/A
130B02PRP-N021	8	-0.9	N/A	N/A
130B02PRP-N022	8	-0.9	N/A	N/A

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Survey Unit: 130B02 Building: T130B

Description: T130B Interior, all surfaces

# **Biased Removable Surface Activity Data Sheet**

Biased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
130B02PBP-N023	8	-0.9	N/A	N/A
130B02PBP-N024	8	0.6	N/A	N/A
130B02PBP-N025	8	3.6	N/A	N/A
130B02PBP-N026	8	-0.9	N/A	N/A
130B02PBP-N027	8	2.1	N/A	N/A.
130B02PBP-N028	8	-0.9	N/A	N/A
130B02PBP-N029	8	-0.9	N/A	N/A
130B02PBP-N030	8	0.6	N/A	N/A
130B02PBP-N031	8	0.6	N/A	N/A
130B02PBP-N032	8	0.6	N/A	N/A
130B02PBP-N033	. 8	-0.9	N/A	N/A
130B02PBP-N034	8	-0.9	N/A	N/A
130B02PBP-N035	8	2.1	N/A	N/A
130B02PBP-N036	8	-0.9	N/A	N/A
130B02PBP-N037	8	-0.9	N/A	N/A
130B02PBP-N038	8	-0.9	N/A	N/A
130B02PBP-N039	8	3.6	N/A	N/A
130B02PBP-N040	8	-0.9	N/A	N/A
130B02PBP-N041	8	-0.9	N/A	N/A
130B02PBP-N042	8	-0.9	N/A	N/A
130B02PBP-N043	8	0.6	N/A	N/A
130B02PBP-N044	8	0.6	N/A	N/A
130B02PBP-N045	8	2.1	N/A	N/A
130B02PBP-N046	8	-0.9	N/A	N/A
130B02PBP-N047	8	0.6	N/A	N/A
130B02PBP-N048	8	-0.9	N/A	N/A
130B02PBP-N049	8	0.6	N/A	N/A

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Survey Area: 5 Survey Unit: 130B02 Building: T130B

Description: T130B Interior, all surfaces

# **Biased Removable Surface Activity Data Sheet**

Biased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
130B02PBP-N050	8	0.6	N/A	N/A
130B02PBP-N051	8	-0.9	N/A	N/A
130B02PBP-N052	8	-0.9	N/A	N/A
130B02PBP-N053	8	-0.9	N/A	N/A
130B02PBP-N054	8	2.1	N/A	N/A.
130B02PBP-N055	8	-0.9	N/A	N/A
130B02PBP-N056	8	-0.9	N/A	N/A
130B02PBP-N057	8	0.6	N/A	N/A
130B02PBP-N058	8	-0.9	N/A	N/A
130B02PBP-N059	8	-0.9	N/A	N/A
130B02PBP-N060	8	0.6	N/A	N/A
130B02PBP-N061	8	0.6	N/A	N/A
. 130B02PBP-N062	8	3.6	N/A	N/A

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Survey Area: 5 Survey Unit: 130802 Building: T1308

Description: T130B Interior, all surfaces

# Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
130B02PRP-N001	5	-5.0	N/A	N/A
130B02PRP-N002	5	14.8	N/A	N/A
130B02PRP-N003	5	11.6	N/A	N/A
130B02PRP-N004	5	4.0	N/A	N/A
130B02PRP-N005	5	10.3	N/A	N/A _
130B02PRP-N006	5	7.1	N/A	N/A
130B02PRP-N007	5	20.6	N/A	N/A
130B02PRP-N008	5	28.3	N/A	N/A
130B02QRP-N008	7	19.1	N/A	N/A
130B02PRP-N009	5	7.1	N/A	N/A
130B02PRP-N010	5	4.0	N/A	N/A
130B02PRP-N011	5	8.5	N/A	N/A
130B02PRP-N012	5	-1.9	N/A	N/A
130B02PRP-N013	5	20.6	N/A	N/A
130B02PRP-N014	5	-1.9	N/A	N/A
130B02PRP-N015	5	16.1	N/A	N/A
130B02PRP-N016	5	32.8	N/A	N/A
130B02QRP-N016	7	20.5	N/A	N/A
130B02PRP-N017	5	5.8	N/A	N/A
130B02PRP-N018	5	11.6	N/A	N/A
130B02PRP-N019	5	10.3	N/A	N/A
130B02PRP-N020	5	8.5	N/A	N/A
130B02PRP-N021	5	5.8	N/A	N/A
130B02PRP-N022	5	14.8	N/A	N/A

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Survey Area: 5 Survey Unit: 130B02 Building: T130B

Description: T130B Interior, all surfaces

# **Biased Total Surface Activity Data Sheet**

Biased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
130B02PBP-N023	6	-7.1	N/A	N/A
130B02PBP-N024	6	1.9	N/A	N/A
130B02PBP-N025	6	3.3	N/A	N/A
130B02PBP-N026	6	3.3	N/A	N/A
130B02PBP-N027	6	0.6	N/A	N/A
130B02PBP-N028	6	-2.6	N/A	N/A
130B02PBP-N029	6	9.6	N/A	N/A
130B02PBP-N030	6	0.6	N/A	N/A
130B02PBP-N031	6	-2.6	N/A	N/A
130B02PBP-N032	6	9.6	N/A	N/A
130B02PBP-N033	6	9.6	N/A	. N/A
130B02PBP-N034	6	3.3	N/A	N/A
130B02PBP-N035	6	0.6	N/A	N/A
130B02PBP-N036	6	6.4	N/A	N/A
130B02PBP-N037	5	6.4	N/A	N/A
130B02PBP-N038	5	9.6	N/A	N/A
130B02PBP-N039	5	9.6	· N/A	N/A
130B02PBP-N040	5	3.3	N/A	N/A
130B02PBP-N041	6	0.6	N/A	N/A
130B02PBP-N042	- 6	12.3	N/A	N/A
130B02PBP-N043	6	21.3	N/A	N/A
130B02PBP-N044	6	-2.6	N/A	N/A
130B02PBP-N045	6	3.3	N/A	N/A
130B02PBP-N046	6	32.1	N/A	N/A
130B02PBP-N047	6	3.3	N/A	N/A
130B02PBP-N048	6	5.1	N/A	N/A
130B02PBP-N049	6	12.3	N/A	N/A

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Survey Area: 5 Survey Unit: 130B02 Building: T130B

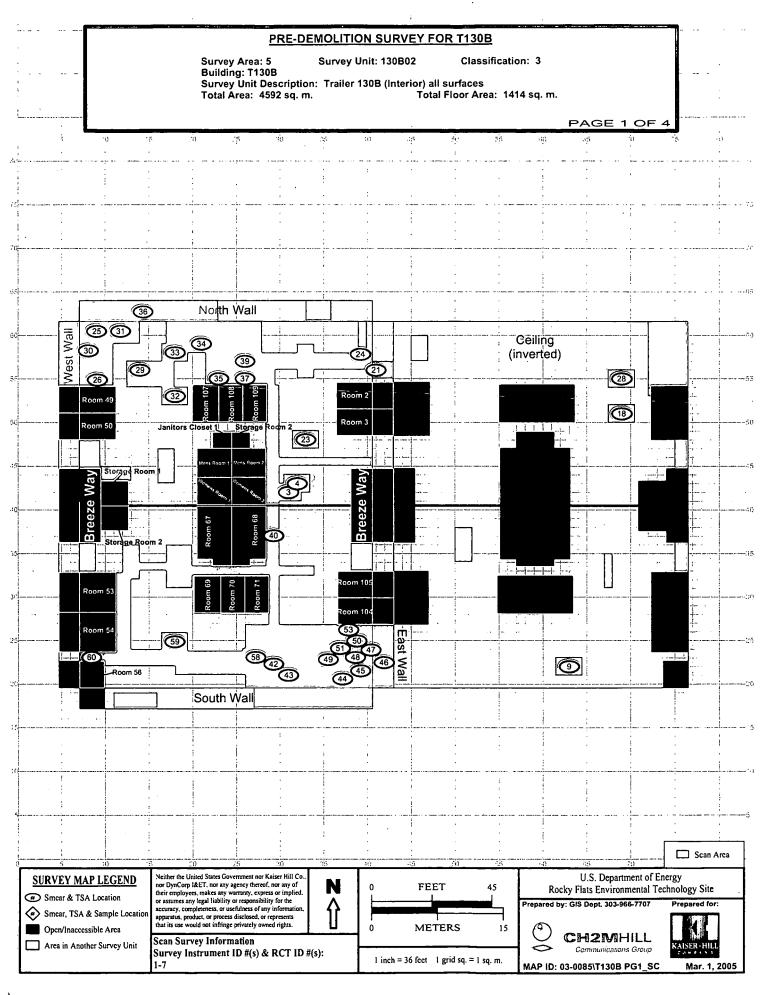
Description: T130B Interior, all surfaces

# **Biased Total Surface Activity Data Sheet**

Blased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
130B02PBP-N050	6	-7.1	N/A	N/A
130B02PBP-N051	6	-8.4	N/A	N/A
130B02PBP-N052	6	23.1	N/A	N/A
130B02PBP-N053	5	0.6	N/A	N/A
130B02PBP-N054	5	9.6	N/A	N/A
130B02PBP-N055	5	6.4	N/A	N/A
130B02PBP-N056	5	-5.7	N/A	N/A
130B02PBP-N057	6	27.6	N/A	N/A
130B02PBP-N058	6	5.1	N/A	N/A
130B02PBP-N059	6	0.6	N/A	N/A
130B02PBP-N060	6	12.3	N/A	N/A
130B02PBP-N061	6	-2.6	N/A	N/A
130B02PBP-N062	6	0.6	N/A	N/A

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## **PRE-DEMOLITION SURVEY FOR T130B**

Survey Area: 5

Survey Unit: 130B02

Classification: 3

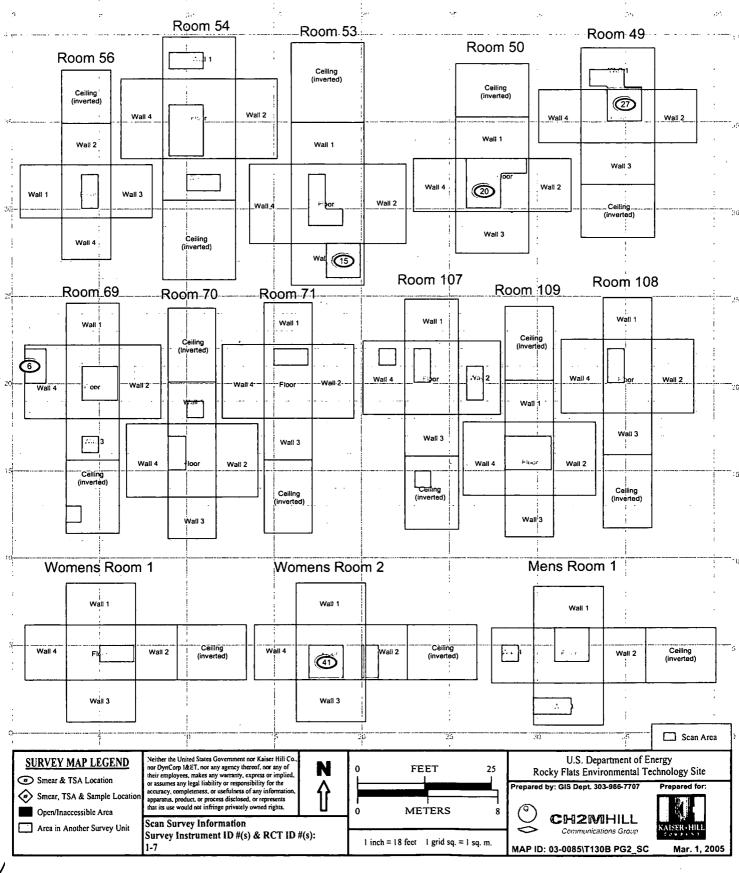
Building: T130B

Survey Unit Description: Trailer 130B (Interior) all surfaces

Total Area: 4592 sq. m.

Total Floor Area: 1414 sq. m.

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## **PRE-DEMOLITION SURVEY FOR T130B**

Survey Area: 5

Survey Unit: 130B02

Classification: 3

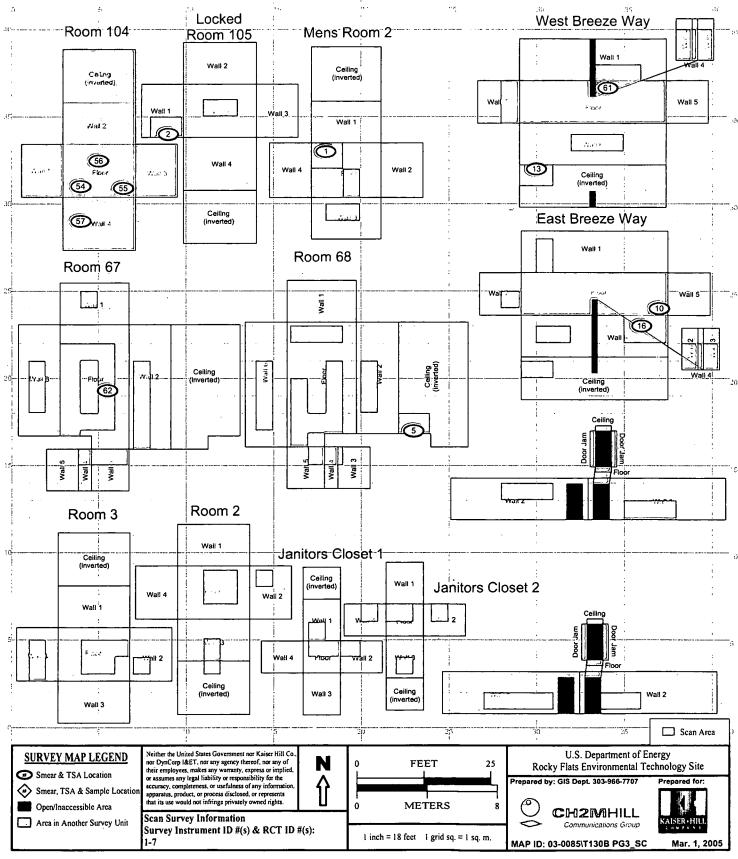
Building: T130B

Survey Unit Description: Trailer 130B (Interior) all surfaces

Total Area: 4592 sq. m.

Total Floor Area: 1414 sq. m.

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# **PRE-DEMOLITION SURVEY FOR T130B**

Survey Area: 5

Survey Unit: 130B02

Classification: 3

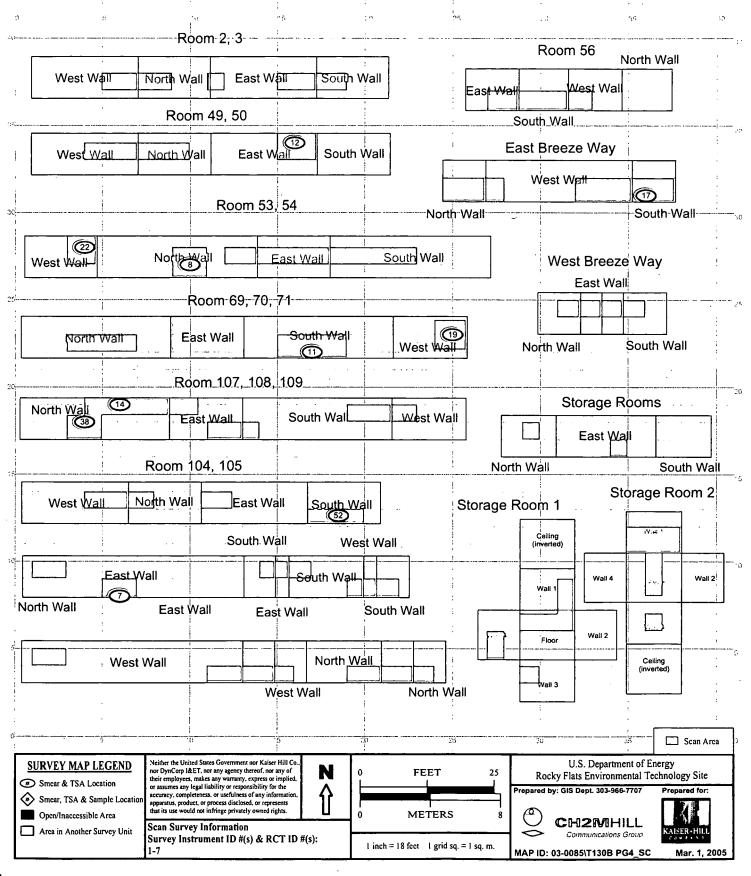
Building: T130B

Survey Unit Description: Trailer 130B (Interior) all surfaces

Total Area: 4592 sq. m.

Total Floor Area: 1414 sq. m.

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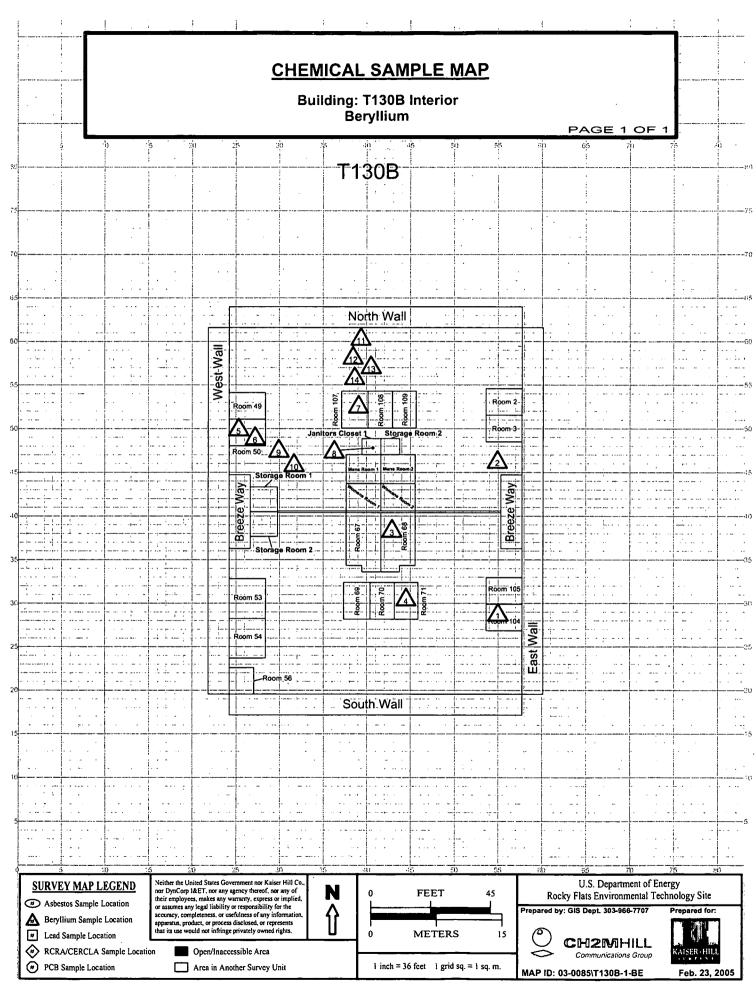
# ATTACHMENT D

# Chemical Data Summaries and Sample Maps

# **Beryllium Data Summary**

Sample Number	Map Survey	Sample Location	Result			
	Point Location		$(ug/100 \text{ cm}^2)$			
Trailer 130B - RIN 05D0573						
130TB-02192005-00-001	1	Room 104 Shelf	< 0.1			
130TB-02192005-00-002	2	Room 103 Desk	< 0.1			
130TB-02192005-00-003	3	Room 68 Table	< 0.1			
130TB-02192005-00-004	4	Room 71 Desk	< 0.1			
130TB-02192005-00-005	5	Room 50 Table	< 0.1			
130TB-02192005-00-006	6	Room 50 Cabinet	< 0.1			
130TB-02192005-00-007	7	Room 107 Desk	< 0.1			
130TB-02192005-00-008	8	Janitor Closet Shelf	< 0.1			
130TB-02192005-00-009	9	Rad Recount Cabinet	< 0.1			
130TB-02192005-00-010	10	Rad Recount Cabinet	< 0.1			
130TB-02192005-00-011	11	External Dosimetry Top of Cabinet	< 0.1			
130TB-02192005-00-012	12	External Dosimetry Top of Cabinet	< 0.1			
130TB-02192005-00-013	13	External Dosimetry Top of Cabinet	< 0.1			
130TB-02192005-00-014	14	External Dosimetry Top of Cabinet	< 0.1			

Note: Sample Number 130TB-02192005-00-015 is a blank.



# ATTACHMENT E Data Quality Assessment (DQA) Detail

# DATA QUALITY ASSESSMENT (DQA)

# **VERIFICATION & VALIDATION OF RESULTS**

V&V of the data confirm that appropriate quality controls are implemented throughout the sampling and analysis process, and that any substandard controls result in qualification or rejection of the data in question. The required quality controls and their implementation are summarized in a tabular, checklist format for each category of data – radiological surveys and chemical analyses (specifically asbestos and beryllium).

DQA criteria and results are provided in a tabular format for each suite of surveys or chemical analyses performed; the radiological survey assessment is provided in Table E-1 and beryllium in E-2. A data completeness summary for all results is given in Table E-3.

All relevant Quality records supporting this report are maintained in the RISS Characterization Project Files. This report will be submitted to the CERCLA Administrative Record for permanent storage within 30 days of approval by the Regulators. All radiological data are organized into Survey Packages, which correlate to unique (MARSSIM) Survey Units. Chemical data are organized by RIN (Report Identification Number) and are traceable to the sample number and corresponding sample location.

Beta/gamma survey designs were not implemented for Trailer 130B based on the conservatism of the transuranic limits used as DCGLs in the unrestricted release decision process. Survey designs were implemented based on the transuranic limits used as DCGLs in the unrestricted release decision process. All survey results were evaluated against, and were less than the Transuranic DCGL<sub>w</sub> (100 dpm/100cm<sup>2</sup>) and the Uranium DCGL<sub>w</sub> (5,000 dpm/100cm<sup>2</sup>) unrestricted release limits.

Consistent with EPA's G-4 DQO process, the radiological survey design (for those survey units performed per PDS requirements) was optimized by checking actual measurement results (acquired during pre-demolition surveys) against model output with original estimates. Use of actual sample/survey (result) variances in the MARSSIM DQO model confirms that an adequate number of surveys were acquired.

# **SUMMARY**

In summary, the data presented in this report have been verified and validated relative to the quality requirements and project decisions as stated in the original DQOs. All data are useable based on qualifications stated herein and are considered satisfactory without qualification. All media surveyed and sampled yielded results less than their associated action levels and with acceptable certainties.

Based upon an independent review of the radiological data, it was determined that the original project DQOs satisfied MARSSIM guidance. All facility contamination levels were below applicable unrestricted release levels. Minimum survey requirements were met, sampling/survey protocol was performed in accordance with applicable procedures, survey units were properly designed and bounded, and instrument performance and calibration were within acceptable limits thereby ensuring accuracy criteria. All results meet the PDS unrestricted release criteria.

Chain of Custody was intact; documentation was complete, hold times were acceptable (where applicable,) and packaging integrity/custody seals were maintained throughout the sampling/analysis process. Level 2 Isolation Controls have been posted to prevent the inadvertent introduction of contamination into the facility. On this basis, Trailer 130B meets the unrestricted release criteria with the confidences stated herein and can be demolished.

Table E-1 V&V of Radiological - Trailer 130B

V&V CRITERIA, RADIOLGICAL SURVEYS		K-H RSP 16.00 Series MARSSIM (NUREG-1575)			
	QUALITY REQUIREMENTS				
	Parameters	Measure frequency			
ACCURACY .	initial calibrations	90% <x<110%< th=""><th>≥1</th><th>Multi-point calibration through the measurement range encountered in the field; programmatic records.</th></x<110%<>	≥1	Multi-point calibration through the measurement range encountered in the field; programmatic records.	
	daily source checks	80% <x<120%< td=""><td>≥1/day</td><td>Performed daily/within range.</td></x<120%<>	≥1/day	Performed daily/within range.	
	local area background: Field	typically < 10 dpm	≥1/day	All local area backgrounds were within expected ranges (i.e., no elevated anomalies.)	
PRECISION	field duplicate measurements for TSA	≥5% of real survey points	≥10% of reals	N/A	
REPRESENTATIVENESS	MARSSIM methodology: Survey Unit 130B02 (interior) and EXT-B-001 (exterior).	statistical and biased	NA	Random w/ statistical confidence.	
	Survey Maps	NA	NA	Random and biased measurement locations controlled/mapped to ±1m.	
	Controlling Documents (Characterization Pkg; RSPs)	qualitative	NA	Refer to the Characterization Package (planning document) for field/sampling procedures (located in Project files); thorough documentation of the planning, sampling/analysis process, and data reduction into formats.	
COMPARABILITY	units of measure	dpm/100cm <sup>2</sup>	NA	Use of standardized engineering units in the reporting of measurement results.	
COMPLETENESS	Plan vs. Actual surveys usable results vs. unusable	>95% >95%	NA	See Table E-3 for details.	
SENSITIVITY	detection limits	TSA: ≤50 dpm/100cm <sup>2</sup> RA: ≤10 dpm/100cm <sup>2</sup>	all measures	MDAs ≤ 50% DCGL <sub>w</sub> per MARSSIM guidelines (RLC performed to PDS requirements).	

Table E-2 V&V of Beryllium - Trailer 130B

V&V CRITERIA, CHEMICAL ANALYSES		DATA PACKAGE		
-	Prep: NMAM 7300	LAB>	Johns Manville Corp.	
BERYLLIUM	METHOD: OSHA ID-125G		Littleton, Co.	
QUALITY REQUIREMENTS		RIN>	RIN 05D0573	
		Measure	Frequency	COMMENTS
ACCURACY	Calibrations		≥1	All results were below associated action levels.
•	Initial	linear calibration		
	Continuing	80%<%R<120%	.≥1	
	LCS/MS	80%<%R<120%	≥1	
	Blanks - lab & field	<mdl< td=""><td>≥l</td><td></td></mdl<>	≥l	
	interference check std (ICP)	NA	NA	
PRECISION	LCSD	80%<%R<120% (RPD<20%)	≥1	
	field duplicate	all results < RL	≥1	
REPRESENTATIVENESS	COC	Qualitative	NA	
	hold times/preservation	Qualitative	NA .	
	Controlling Documents (Plans, Procedures, maps, etc.)	Qualitative	NA	
COMPARABILITY	measurement units	ug/100cm²	NA	
COMPLETENESS	Plan vs. Actual samples	>95%	NA	1 .
	usable results vs. unusable	>95%		i.
SENSITIVITY	detection limits	MDL of		
		0.012 ug/100cm <sup>2</sup>	all measures	

Table E-3 Data Completeness Summary - Trailer 130B					
ANALYTE	Building/Area/ Unit	Sample Number Planned (Real & QC)	Sample Number Taken (Real & QC)	Project Decisions (Conclusions) & Uncertainty	Comments (RIN, Analytical Method, Qualifications, etc.)
Asbestos	Trailer 130B (interior)	3 samples (interior)	A 0 samples	A No ACM present, all results < 1% by volume	40 CFR763.86; 5 CCR 1001-10; EPA 600/R-93/116  A Refer to section 4.1, Asbestos, for justification as to why asbestos sampling was not performed as part of this RLC.
Beryllium	Trailer 130B (interior)	5 biased (interior)	14 biased (interior)	No beryllium contamination found, all results are below associated action levels	OSHA ID-125G  RIN 05D0573  No results above action level (0.2ug/100cm²) or investigative level (0.1 ug/100cm²).
Radiological	Survey Area 5 Survey Unit: 130B02 Trailer 130B – All Surfaces (interior)	62 α TSA (22 random/40 biased) and 62 α Smears (22 random/40 biased)	62 α TSA (22 random/40 biased) and 62 α Smears (22 random/40 biased)	No contamination found at any location; all values below PDS unrestricted release limits	Transuranic DCGLs used.
		2 QC TSA 5% scan on all interior surfaces	2 QC TSA 5% scan on all interior surfaces		: